Rapid Query Tool (RQT)

1. System Description

The Rapid Query Tool (RQT) is a prototype. It consists of one segment, the RQT Client. No RQT specific database segment is required. It is intended to perform all the critical functions of legacy JOPES Ad Hoc Query (AHQ), but at a much higher speed. It is a rapid Operation Plan (OPLAN) query tool. It uses a new approach that provides a fast, flexible, and complete solution to a user's OPLAN query needs. RQT provides a wide range of user-defined data representation and format options for viewing and printing OPLAN data. RQT creates a "snapshot" of OPLAN data through rapid retrieval using parallel processing. This snapshot is saved on the Client workstation and is used when generating reports. This approach allows report tailoring "on the fly" and greatly reduces the number of times the GCCS Oracle database is accessed.

RQT provides the user with a comprehensive JOPES data retrieval, analysis, and output tool. The primary goal in the development of RQT is providing the JOPES user community with a total OPLAN data analysis tool with the absolute maximum performance. Speed does not come without the application of processing power. RQT does this by taking advantage of the database server's capability to manage multiple processors and processes. RQT creates multiple processes to extract data, thus eliminating the time-consuming bottleneck of multiple ORACLE table joins. After the data is retrieved, it is then merged into a single "snapshot" for analysis. The multiple processes are prioritized and managed by the database server operating system in consideration of server demands to perform other tasks. It is to the user's advantage that the operating system puts as much computing power as available to accomplish the retrievals and merge the data. This is done quickly and efficiently as opposed to long term, slow processes that tend to bog the system down.

2. System Requirements

RQT resides on the Solaris Platform. The installation and runtime requirements are as follows: GCCS Account Group (GCCS), ORACLE Client Applications (ORAC), ORACLE Client Tools 2 (ORAT2) and TCL (TCL).

3. Users/Training

RQT was developed for the JOPES user community. Training will be included in the JOPES course by the JOPES Training Organization at Scott Air Force Base. In addition, there is excellent training information/examples contained in the Users Guide, CM 500-373-15, which can be downloaded from the DISA Homepage.